# **DETAIL ESTIMATE OF**

# PROPOSED ADMISTRATIVE BUILDING, PHASE-III

# OF MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIYALAY

# AT ATUATIKA, RAIDONGA, NAGAON, ASSAN

## **CIVIL WORKS:**

SI.No.	APWD No.	Description of works	Unit	Qty.	Rate	Contarct Rate	Amount
CPTR	1	EARTHWORK					
1	1.1	EARTHWORK IN EXCAVATION					
1	1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.					
		(A) Up to a depth of 2.00m below the existing ground level.					
		(a) In ordinary soil	Cum	493.04	108.82		Rs.53,652.35
2	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.					
		(c) With river sand or silt (predominantly non plastic) by truck carriage including loading and unloading.	Cum	1149.10	345.61		Rs.397,139.07
3	1.4	Raising low site around the building with approved soil obtained from outside by truck carriage including breaking clods, dressing etc. complete including paying necessary forest royelty, sales tax, land compensation, municipal gate fees, if any monopoly duty etc. (profile measurement to be taken and 12.5% deduction for shrinkage to be made from total quantity) etc. complete as directed and specified.					,

		(b) Other than Guwahati city	Cum	11268.25	210.20	Rs.2,368,585.62
0555						
CPTR	2	CEMENT CONCRETE WORKS				
	2.1	PLAIN CEMENT CONCRETE WORKS				
4	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).  (b) In prop 1cement: 4 sand :8 coarse				
		aggregate by volume	Cum	51.12	3890.61	Rs.198,901.78
5	2.1.2	Plain cement concrete floor base in prop1:3:6 laid in alternate bays as specified with coarse agg. of size 13mm to 32mm including dewatering if necessary, and curing etc. complete.				
		b) 50mm thick	Sqm	1422.00	253.28	Rs.360,164.16
6	2.1.3	Providing and laying 25mm thick damp proof course with cement concrete in prop 1:1.5:3 with graded stone agg. of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	Sqm	122.73	181.99	Rs.22,336.11
CPTR	2.2	REINFORCED CEMENT CONCRETE WORKS				
7	2.2.1	Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)				
		(I) Using Mixer Machine				
		(A) In substructure up to plinth level				

		Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works				
		not less than 100mm thick up to plinth				
		N) Without using admixture, plasticiser				
		b) M20 grade concrete or Prop. 1:1.5:3	Cum	515.48	6063.65	Rs.3,125,706.83
		i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc.	Julia	010.10	0000.00	110:0,120,100:00
		N) Without using admixture, plasticiser				
		b) M20 grade concrete or Prop. 1:1.5:3	Cum	357.39	6241.39	Rs.2,230,612.71
CPTR	3	SHUTTERING WORKS				
01 111	3.1	TIMBER SHUTTERING (FORMWORK)				
8	3.1.1	Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in:  Foundation, footings, bases of columns,				
	3.1.1.1	pile cap, raft and mass concrete works etc.				
		(b) Using 25mm thick plank	Sqm	638.01	252.24	Rs.160,931.09
9	3.1.1.2	Sides of tie beams, grade beams etc. at or below ground level.				
		(b) Using 25mm thick plank	Sqm	970.33	341.90	Rs.331,756.00
10	3.1.1.3	Columns, Pillars, Posts & Strut  (a) Square, Rectangular, polygonal in plan or any shape like Tee/L etc. having plane vertical face  (ii) Using 25mm thick plank	Sqm	936.60	364.01	Rs.340,931.77
		(b) Circular or curved in plan (Using 38mm thick plank)	Sqm	195.94	531.15	Rs.104,071.41
11	3.1.1.4	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties.  (a) For depth not exceeding 1.0M.				
		(ii) Using 25mm thick plank	Sqm	780.45	202.44	Rs.157,995.01
12	3.1.1.5	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconies and the like.				
		(a) Floors etc. upto 200mm in thickness.				

		(ii) Using 25mm thick plank	Sqm	1494.56	429.93	Rs.642,554.25
13	3.1.1.7	Sloping or Battering sufaces such as				
		sloped slabs etc. including folded plates.				
		(a) Where inclination to horizontal plane				
		does not exceed 30o requiring shuttering				
		only on the underside.				
	0.4.4.6	(ii) Using 25mm thick plank	Sqm	77.52	489.24	Rs.37,925.88
14	3.1.1.10	Staircase with sloping or stepped soffits				
		including risers and stringers but excluding	_			
		Landing. (Using 38mm thick plank)	Sqm	55.10	496.80	Rs.27,375.17
	4	MASONARY WORK				
15	4.1.1	Providing <b>soling</b> in foundation and under				
13	4.1.1	floor with stone/ best quality picked jhama				
		brick, sand packed and laid to level and in				
		panel after preparing the subgrade as				
		directed including all labour and materials				
		and if necessary dewatering, complete.				
		and if necessary dewatering, complete.				
		(a).Brick on flat soling.	Sqm	2298.81	368.71	Rs.847,595.52
16	4.1.4	Brick work in cement morter with 1st class	'			,
		brick including racking out joints and				
		curing complete as directed.				
		(I) In Sub-structure upto plinth level				
		including dewatering if necessary				
		(b) In proportion 1:4.	Cum	31.77	5860.86	Rs.186,198.94
17	4.1.8	1st class brick nogged wall in cement				
		mortar including racking out joints and				
		curing complete as directed in super				
		structure above plinth up to 1st floor level				
		(protruding M.S rod/Tor steel of column to				
		be embeded in cement mortar and will be				
		measured and paid separately)				
		(A) <b>112mm</b> thick brick wall				
		(a) In cement mortar in proportion 1:4. (	Sqm	1454.11	653.01	Rs.949,550.98
CPTR		PLASTERING AND HERITAGE FINISH				
<del></del>	6	PLASTERING WORK	<del>                                     </del>	+		
	6.2	CEMENT PLASTERING				
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	6.2.1	10 mm thick Cement plaster in single				
		coat on fair side of brick/concrete walls				
		for interior plastering up to 1st floor level				
		including arises or rounded angles not				
		exceeding 80mm girth and finished even				
		and smooth including curing complete as				
$\vdash$		directed.	Cam	1400 50	116.05	Do 175 010 01
-		b) In cement mortar 1:4	Sqm	1499.52	116.85	Rs.175,218.91
CPTR	18	STEEL AND IRON WORKS				
<u> </u>	18.1	REINFORCEMENT				
19	18.1.1	Supplying, fitting and fixing in position				
		reinforcement bars conforming to relevant				
		I.S. Code for R.C.C. work/ R.B. walling				
		including straightening, cleaning, cutting				
		and bending to proper shapes and length				
		as per details, supplying and binding with				
		20G annealed black wire and placing in				
		position with proper blocks, supports,				
		chairs, spacers etc. complete.				
		(No extra measurement for lap, hook,				
		chair, anchor etc. will be entertained in the measurement as they are included in the				
		rate) (Upto 1st floor level)				
		, , ,				
		a) From Primary Producer: TATA/SAIL/Jindal steel/Shyam steel/RINL				
		(i) TMT Corrosion resistant steel (CRS)				
		reiforcement bar	Qtl.	1112.67	7158.90	Rs.7,965,493.26
CPTR	21	PILING WORKS				
	21.2	MACHINE DRIVEN PILES				
20	21.2.1	Providing cast in-situ machine driven				
		reinforced cement concrete piles of				
		required bore-diameter, bulb diameter,				
		lengths and with reinforcement as per				
		specifications and drawings including using				
		of Bentonite solution. (Reinforcement to be				
		measured and paid seperately as per item				
		no. 21.4.1)				
		C) UNIFORM PILE				
		(I) Concret garade M20				
		iii) Pile dia 400 mm	Rm	3312.00	1236.74	Rs.4,096,082.88
	21.5	REINFORCEMENT				

21	21.5.1	Supplying, fitting and fixing in position reinforcement bars conforming to relevent IS code, for reinforced cement concrete works in piles including straightening, cleaning, cutting and bending to proper shapes and length as per specifications and drawings. The rings should be welded with vertical reinforcements as per				
		specified IS codes of practice. (Inclusive of lap length, hook, chair, bend, anchoretc)				
		(A) TMT bar made of Primary producer (From Primary producer)	Qtl.	327.79	7210.68	Rs.2,363,618.51
22	28.1	Collection from the field and testing in the laboratory of undisturbed soil sample for sub-soil investigation (as per relevant I.S. code) by open drive sampler (100 mm dia. Boring) through clayey soil layer/sandy soil layer/sandy clay/sandy silt layer/clayey silt layer, conduction standard penetration test(SPT) and collection of SPT sampler, observation of ground water table, spot level survey to the bore location and carrying out R.L. from nearest B.M., laboratory test (particle size analysis, hydrometer test, liquid limit determination, plastic limit determination, specific gravity determination, triaxal test, direct shear test, unconfined compression test, consolidation test) including preparation of sub-soil investigation report complete with necessary printing and binding (minimum 5 copies)				
	+	A. Boring.  (ii) Construction of 100mm machine boring				
		(Drilling) through all types of cycle,sandy clay,silty sand,silty clay soil,excluding transportation charges.	Rm	46.00	849.65	Rs.39,083.90
		TOTAL OF CIVIL V	Rs.27,183,482.09			